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Application No.: 10/725,859
Art Unit: 2194

Docket No.: MWS-093

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) In an electronic device, a A computer-implemented method of accessing a library function in a shared library from a dynamic environment, comprising the steps of:
processing a header file of the library function to automatically specify parameter information extract information for creating an interface to access the library function; and
creating and storing the interface to the library function in the shared library using the parameter information, the interface automatically converting a data type in an input to the interface to a selected data type for the library function; and
saving the interface to the library function in an executable form for subsequent use.
2. (Currently Amended) The method of claim 1, wherein processing the header file further comprises automatically defining parameters for the interface to the library function based on the header file.
3. (Currently Amended) The method of claim 2, wherein automatically defining parameters for the interface to the library function based on the header file further comprises creating at least one data structure having selected parameters for interfacing with the library function.
4. (Currently Amended) The method of claim 1, wherein processing the header file further comprises automatically ensuring inputs to the interface to the library function are in the form of selected data types based on the header file.
5. (Currently Amended) The method of claim 4, wherein automatically ensuring inputs to the interface to the library function are in the form of selected data types based on the header file further comprises the interface converting data types to the selected data types for the library function with the interface.
6. (Previously Presented) The method of claim 1, wherein the shared library comprises one of a Dynamic Link Library (DLL) file and a file with a shared object (.so) file extension.

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7. (Original) The method of claim 1, wherein the header file comprises a C header file.
8. (Canceled)
9. (Original) The method of claim 1, further comprising receiving a command to call the library function.
10. (Original) The method of claim 1, further comprising executing the library function using the interface from the shared library.
11. (Original) The method of claim 1, wherein the dynamic environment comprises at least one of a text-based modeling application and a graphical-based modeling application.
12. (Currently Amended) ~~In an electronic device, a~~ A computer-implemented method of accessing a library function in a shared library from a dynamic environment, comprising the steps of:
 - loading the library function from the shared library;
 - automatically generating and storing an interface to access the library function by automatically specifying parameter information for the interface to the library function, the interface automatically converting a data type in an input to the interface to a selected data type for the library function;
 - saving the interface to the library function in an executable form for subsequent use; and
 - executing the library function using the interface from the shared library.
13. (Currently Amended) The method of claim 12, wherein automatically generating the interface further comprises the electronic device processing a header file of the library function and extracting information for creating the interface to the library function in the shared library.
14. (Currently Amended) The method of claim 13, wherein processing the header file further comprises automatically defining parameters for the interface to the library function based on the header file.

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15. (Currently Amended) The method of claim 14, wherein automatically defining parameters for the interface to the library function based on the header file further comprises the electronic device creating at least one data structure having selected parameters for interfacing with the library function.

16. (Currently Amended) The method of claim 13, wherein processing the header file further comprises automatically ensuring inputs to the library function are in the form of selected data types based on the header file.

17. (Currently Amended) The method of claim 16, wherein automatically ensuring inputs to the library function are in the form of a selected data type based on the header file further comprises the interface converting data types to the selected data types for the library function.

18. (Previously Presented) The method of claim 12, wherein the shared library comprises one of a Dynamic Link Library (DLL) file and a file with a shared object (.so) file extension.

19. (Original) The method of claim 12, wherein the header file comprises a C header file.

20. (Canceled)

21. (Original) The method of claim 12, wherein the dynamic environment comprises at least one of a text-based modeling application and a graphical-based modeling application.

22. (Currently Amended) A computer-implemented system for calling a shared library from a dynamic environment, the system comprising:

a storage; and
a processor configured to:
execute an application providing a dynamic environment;
execute a shared library accessible by the dynamic environment;
execute an automated processing function for automatically ~~extracting~~ specifying parameter information for creating and saving an interface to access a library function to enable execution of the library function from the shared library, the interface automatically

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converting a data type in an input to the interface to a selected data type for the library function,
and
save the interface to the library function in an executable form for subsequent use.

23. (Previously Presented) The system of claim 22, wherein the shared library comprises one of a Dynamic Link Library (DLL) file and a file with a shared object (.so) file extension.

24. (Previously Presented) The system of claim 22, wherein the header file comprises a C header file.

25. (Previously Presented) The system of claim 22, further comprising the interface to the library function being saved in the shared library of the dynamic environment in an executable form.

26. (Previously Presented) The system of claim 22, wherein the dynamic environment comprises at least one of a text-based modeling application and a graphical-based modeling application.

27. (Currently Amended) A medium for use in a modeling and execution environment on an electronic device, the medium holding instructions executable using the electronic device for performing a computer-implemented method of accessing a library function in a shared library from a dynamic environment, the method comprising the steps of:

processing a header file of the library function to extract automatically specify parameter information for creating an interface to the library function; and

creating and storing the interface to access the library function in the shared library using the parameter information, the interface automatically converting a data type in an input to the interface to a selected data type for the library function; and

saving the interface to the library function in an executable form for subsequent use.

28. (Currently Amended) The medium of claim 27, wherein processing the header file further comprises automatically defining parameters for the interface to the library function based on the header file.

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29. (Currently Amended) The medium of claim 28, wherein automatically defining parameters for the interface to the library function based on the header file further comprises creating at least one data structure having selected parameters for interfacing with the library function.

30. (Currently Amended) The medium of claim 27, wherein processing the header file further comprises automatically ensuring inputs to the interface to the library function are in the form of selected data types based on the header file.

31. (Currently Amended) The medium of claim 30, wherein automatically ensuring inputs to the interface to the library function are in the form of selected data types based on the header file further comprises the interface converting data types to the selected data types for the library function.

32. (Previously Presented) The medium of claim 27, wherein the shared library comprises one of a Dynamic Link Library (DLL) file and a file with a shared object (.so) file extension.

33. (Original) The medium of claim 27, wherein the header file comprises a C header file.

34. (Canceled)

35. (Original) The medium of claim 27, wherein the dynamic environment comprises at least one of a text-based modeling application and a graphical-based modeling application.